Digitized by Sam Nudge
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wheelock
THE SIGNAL SOURCE℠

INSTALLATION INSTRUCTIONS
HORNS WITH INPUT SCREW TERMINALS
STROBE/HORNS WITH SEPARATE INPUT SCREW TERMINALS FOR HORN AND STROBE
STROBE/HORNS WITH COMMON INPUT SCREW TERMINALS FOR HORN AND STROBE

HORN RATINGS				
HORN MODEL NO.	TYPE	INPUT VOLTAGE	INPUT CURRENT	NOMINAL dBA AT 10 FT. (ANECHOIC)
31T-12	AC	12VAC	1.500A	95
31T-24		24VAC	0.750A	
31T-115		115VAC	0.160A	
31T-220		220VAC	0.075A	
35T-115	AC	115VAC	0.160A	94
34T-12	DC POLARIZED	12VDC	0.125A	92
34T-24		24VDC	0.063A	
36T-24	DC POL.	24VDC	0.042A	90

STROBE RATINGS FOR STROBE/HORNS WITH SEPARATE INPUT TERMINALS								
STROBE TYPE	FLASHES PER SEC	INPUT VOLTAGE	INPUT CURRENT	LENS COLOR/CANDLEPOWER				
				WHITE	RED	AMBER	GREEN	BLUE
S	1 (APPROX.)	24VDC 115VAC	0.042A * 0.018A *	8K	2K	5.2K	3.4K	2.1K

* For horn ratings refer to horn rating chart.

STROBE/HORN RATINGS FOR STROBE/HORNS WITH COMMON INPUT TERMINALS					
STROBE/HORN MODEL NO.	TYPE	INPUT VOLTAGE	INPUT CURRENT	NOMINAL dBA AT 10FT (ANECHOIC)	CANDLEPOWER AND FLASH RATE
7001T-12	DC POLARIZED	12VDC	0.125A	92	SAME AS TYPE S
7001T-24		24VDC	0.063A		
7002T-12		12VDC	0.125A		
7002T-24		24VDC	0.063A		
7004T-115	AC	115VAC	0.160A	95	

Wheelock Inc. manufactures high quality signals. These signals should be installed and checked out in accordance with these instructions and local and state codes. In addition all signals should be checked out at least twice a year and more often if dictated by local and state codes.

DC versions of horns and strobe/horns have internal contact points and should not be used in dusty environments unless mounted to the sealed WBB (weather resistant) backbox. They must be kept in their shipping cartons to protect them from contamination during construction activities such as sheetrocking, spackling and painting and they must be installed into clean backboxes. These versions are not recommended for prolonged high humidity conditions.

Backboxes for all horns and strobe/horns should be securely mounted. Looseness may degrade sound output. Conduit entrance to backboxes should be selected to insure sufficient wiring clearance.

In-rush current of all DC horns and strobe/horns is approximately 3 times rated current. This in-rush current surge exists for about 0.02 seconds and must be supplied by the system power supply to insure start-up of all devices. If the system power supply does not have sufficient surge capability (generally provided by large filter capacitors), loading of the supply should be based on the DC horn in-rush requirements rather than on their rated (steady-state) current.

All DC horns and strobe/horns will operate on full-wave rectified (unfiltered) DC as well as pure (filtered) DC over a voltage range of +30% to -25% of nominal rated voltage.

Anechoic dB ratings are for "free field" (anechoic) conditions. Such conditions are approximated in outdoor installations. Indoor installations provide greater dB because of reflected sound energy. Typical indoor sound output is significantly higher than rated anechoic dB.

All horns will operate on "coded systems" up to 3 on-off cycles per second. Strobes cannot be coded and must flash at their own rate. For coded systems, strobe/horns with common input terminals should not be used. Strobe/horns with separate input terminals can be used in coded systems to operate the horn only, while the strobe flashes uncoded from separate power lines.

Field adjustment or repair of horns or horn portion of strobe/horns should not be attempted. Malfunctioning units should be returned for factory repair or replacement in accordance with Wheelock Inc.'s published "Terms and Conditions".

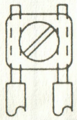


FIG. 1

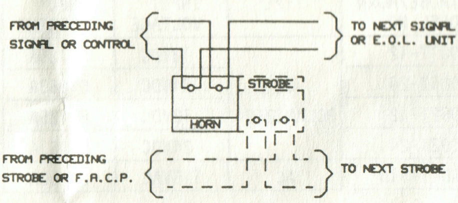

TYPICAL WIRING
FROM PRECEDING SIGNAL OR CONTROL
TO NEXT SIGNAL OR E.O.L. UNIT
STROBE
HORN
FROM PRECEDING STROBE OR F.A.C.P.
TO NEXT STROBE

FIG. 2

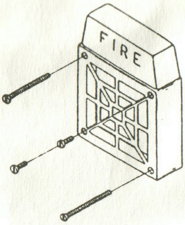
1. For terminals with wire clamps, (2) wires (12 AWG max.) per position are allowed. Do not pig tail or wrap wires around screw see Fig. 1.
2. Dashed lines used only for strobe horns with separate input terminals. Polarized signals have terminals marked with polarity.

HORN AND STROBE/HORN MOUNTING INFORMATION

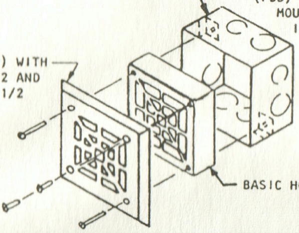
BASIC HORN & STROBE HORN

THE BASIC HORN AND STROBE/HORN ARE SUPPLIED WITH SCREW TERMINALS FOR CONNECTION TO THE POWER SOURCE, (2) #10-32 X 1/2 SCREWS FOR ACCESSORIES * MOUNTED TO THE UNIT GRILLE IF REQUIRED, AND (2) #8-32 X 1-1/2 SCREWS FOR INSTALLATION.

* IF NO ACCESSORIES ARE USED REQUIRING THESE SCREWS, INSERT THEM INTO THE UNUSED HOLES



FLUSH MOUNTING

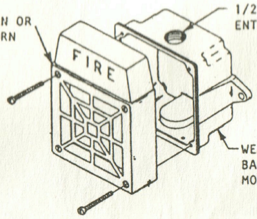


FLUSH BACKBOX (FBB) TO BE MOUNTED IN WALL

FLUSH PLATE (FP) WITH (2) #10-32 X 1/2 AND (2) #10-32 X 1-1/2 SCREWS

BASIC HORN

WEATHER RESISTANT MOUNTING

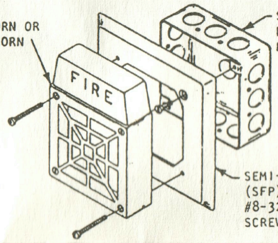


BASIC HORN OR STROBE/HORN

1/2" CONDUIT ENTRANCE ON TOP

WEATHER RESISTANT BACKBOX (WBB) TO BE MOUNTED IN WALL

SEMI-FLUSH MOUNTING

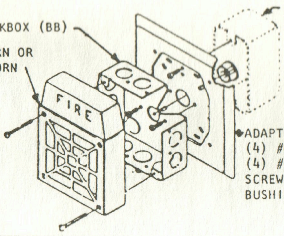


BASIC HORN OR STROBE/HORN

STD. 4" SQUARE BACKBOX TO BE MOUNTED IN WALL

SEMI-FLUSH PLATE (SFP) WITH (2) #8-32 X 9/16 SCREWS

CONCEALED CONDUIT MOUNTING



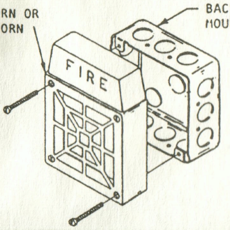
EXISTING BOX IN WALL

BACKBOX (BB)

BASIC HORN OR STROBE/HORN

ADAPTER PLATE (AP), (4) #6-32 X 1/2, (4) #8-32 X 9/16 SCREWS AND A BUSHING

SURFACE MOUNTING

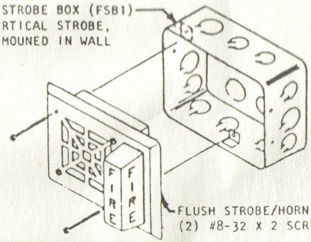


BASIC HORN OR STROBE/HORN

BACKBOX (BB) TO BE MOUNTED ON WALL SURFACE

FLUSH MOUNTING

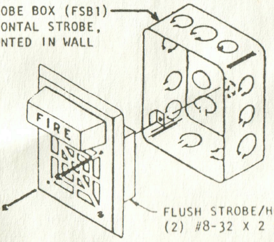
FLUSH STROBE BOX (FSB1) FOR VERTICAL STROBE, TO BE MOUNED IN WALL



FLUSH STROBE/HORN WITH (2) #8-32 X 2 SCREWS

FLUSH MOUNTING

FLUSH STROBE BOX (FSB1) FOR HORIZONTAL STROBE, TO BE MOUNTED IN WALL



FLUSH STROBE/HORN WITH (2) #8-32 X 2 SCREWS